

WHAT IS CLAIMED IS:

1. An apparatus for delivering one or more features in a network environment, comprising:

a mobile station operable to conduct a communication
5 session that involves a communication device, wherein the
mobile station is operable to roam between a private and
a public network and use multiple access technologies to
facilitate the communication session, an Internet
protocol (IP) private branch exchange (PBX) being
10 operable to receive a request from a selected one of the
communication device and the mobile station to establish
the communication session, the IP PBX responding to the
request by signaling to the mobile station via a cellular
data network that a call is being initiated that involves
15 the mobile station, the IP PBX being operable to exchange
signaling information with a voice gateway after
receiving the request such that one or more voice
circuits are established by the voice gateway in order to
accommodate voice data that may propagate between the
20 communication device and the mobile station, and wherein
a signaling pathway is established between the IP PBX and
the mobile station via the cellular data network in
response to the request, the establishment of the
signaling pathway being substantially concurrent with the
25 establishment of one or more of the voice circuits such
that one or more features associated with the private
network are delivered to the mobile station during the
communication session, the features associated with the
private network being delivered to the mobile station
30 when it is operating in either of the public and private
networks.

2. The apparatus of Claim 1, wherein the mobile station includes a functions element operable to perform scanning and roaming operations for the mobile station.

5 3. The apparatus of Claim 2, wherein the functions element is further operable to provide power management and wireless local area network (WLAN) operations for the mobile station.

10 4. The apparatus of Claim 2, wherein the mobile station includes one or more virtual drivers operable to communicate with the functions element in order to facilitate a selected communications protocol being implemented in the communication session.

15 5. The apparatus of Claim 1, wherein the IP PBX communicates call-identification information to the mobile station after receiving the request from the communication device.

20 6. The apparatus of Claim 1, wherein signaling information associated with one or more functions performed at the mobile station and involving one or more of the features associated with the private network are
25 received by the IP PBX and processed therein during the communication session.

30 7. The apparatus of Claim 1, wherein the communication session is presented to an end user of the mobile station in a manner that is consistent with a display that may be offered in the private network.

8. The apparatus of Claim 1, wherein the one or more of the features associated with the private network are a selected one of a group of elements consisting of:

- a) a 'hold' function;
- 5 b) a conference call function;
- c) a voice mail function;
- d) a do not disturb function;
- e) a message alert function;
- f) a three-way call function;
- 10 g) a call forwarding function;
- h) a call waiting function; and
- i) a directory function.

9. The apparatus of Claim 1, wherein the mobile
15 station includes an operations/administration (OA) and management/policies (MP) element operable to provide provisioning applications for the mobile station, the provisioning applications being associated with one or more policies provided to an end user of the mobile
20 station.

10. The apparatus of Claim 1, wherein the mobile station includes a general module that is operable to provide a communicative platform from which one or more
25 of the features associated with the private network are delivered.

11. The apparatus of Claim 1, wherein signaling information associated with one or more functions performed at the mobile station and involving one or more of the features associated with the private network are
5 received by the IP PBX and processed therein during the communication session.

12. The apparatus of Claim 1, wherein the IP PBX is operable to perform a make before break protocol as the
10 mobile station moves between the public and private networks such that the communication session is not lost.

13. The apparatus of Claim 1, wherein the voice gateway is included in the signaling pathway such that
15 signaling information associated with one or more functions performed at the mobile station and involving one or more of the features associated with the private network are received by the IP PBX and forwarded to the voice gateway.

14. A method for delivering one or more features in a network environment, comprising:

receiving a request from a selected one of a communication device and a mobile station to establish a communication session that involves the mobile station,
5 wherein the mobile station is operable to roam between a private and a public network and use multiple access technologies to facilitate the communication session;

responding to the request by signaling to the mobile
10 station via a cellular data network that a call is being initiated that involves the mobile station;

exchanging signaling information with a voice gateway after receiving the request such that one or more voice circuits are established by the voice gateway in
15 order to accommodate voice data that may propagate between the communication device and the mobile station;
and

establishing a signaling pathway between an Internet protocol (IP) private branch exchange (PBX) and the
20 mobile station via the cellular data network in response to the request, wherein the establishment of the signaling pathway is substantially concurrent with the establishment of one or more of the voice circuits such that one or more features associated with the private
25 network are delivered to the mobile station during the communication session, and wherein the features associated with the private network are delivered to the mobile station when it is operating in either of the public and private networks.

15. The method of Claim 14, further comprising:
exchanging signaling information between the IP PBX
and the communication device after the request is
5 received by the IP PBX.

16. The method of Claim 14, further comprising:
performing a make before break protocol as the
mobile station moves between the public and private
10 networks such that the communication session is not lost.

17. The method of Claim 14, further comprising:
processing signaling information associated with one
or more functions performed at the mobile station and
15 involving one or more of the features associated with the
private network at the IP PBX during the communication
session.

18. The method of Claim 14, further comprising:
20 presenting the communication session to an end user
of the mobile station in a manner that is consistent with
a display which may be offered in the private network.

19. The method of Claim 14, further comprising:
25 identifying that the mobile station is equipped to
accommodate one or more of the features associated with
the private network and one or more of the features
associated with the cellular data network after the
request is received.

20. A system for delivering one or more features in a network environment, comprising:

means for receiving a request from selected one of a communication device and a mobile station to establish a communication session associated with the mobile station,
5 wherein the mobile station is operable to roam between a private and a public network and use multiple access technologies to facilitate the communication session;

means for responding to the request by signaling to
10 the mobile station via a cellular data network that a call is being initiated that involves the mobile station;

means for exchanging signaling information with a voice gateway after receiving the request such that one or more voice circuits are established by the voice
15 gateway in order to accommodate voice data that may propagate between the communication device and the mobile station; and

means for establishing a signaling pathway coupled to the cellular data network in response to the request,
20 wherein the establishment of the signaling pathway is substantially concurrent with the establishment of one or more of the voice circuits such that one or more features associated with the private network are delivered to the mobile station during the communication session, and
25 wherein the features associated with the private network are delivered to the mobile station when it is operating in either of the public and private networks.

21. The system of Claim 20, further comprising:

30 means for exchanging signaling information via the communication device after the request is received.

22. The system of Claim 20, further comprising:

means for performing a make before break protocol as the mobile station moves between the public and private networks such that the communication session is not lost.

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23. The system of Claim 20, further comprising:

means for processing signaling information associated with one or more functions performed at the mobile station and involving one or more of the features associated with the private network during the communication session.

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24. The system of Claim 20, further comprising:

means for presenting the communication session to an end user of the mobile station in a manner that is consistent with a display which may be offered in the private network.

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25. The system of Claim 20, further comprising:

means for identifying that the mobile station is equipped to accommodate one or more of the features associated with the private network and one or more of the features associated with the cellular data network after the request is received.

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26. Software for delivering one or more features in a network environment, the software being embodied in a computer readable medium and comprising computer code such that when executed is operable to:

5 receive a request from a selected one of a communication device and a mobile station to establish a communication session that involves the mobile station, wherein the mobile station is operable to roam between a private and a public network and use multiple access
10 technologies to facilitate the communication session;

 respond to the request by signaling to the mobile station via a cellular data network that a call is being initiated that involves the mobile station;

 exchange signaling information with a voice gateway
15 after receiving the request such that one or more voice circuits are established by the voice gateway in order to accommodate voice data that may propagate between the communication device and the mobile station; and

 establish a signaling pathway via the cellular data
20 network in response to the request, wherein the establishment of the signaling pathway is substantially concurrent with the establishment of one or more of the voice circuits such that one or more features associated with the private network are delivered to the mobile
25 station during the communication session, and wherein the features associated with the private network are delivered to the mobile station when it is operating in either of the public and private networks.

27. The medium of Claim 26, wherein the code is further operable to:

exchange signaling information via the communication
5 device after the request is received.

28. The medium of Claim 26, wherein the code is further operable to:

perform a make before break protocol as the mobile
10 station moves between the public and private networks
such that the communication session is not lost.

29. The medium of Claim 26, wherein the code is further operable to:

15 process signaling information associated with one or
more functions performed at the mobile station and
involving one or more of the features associated with the
private network during the communication session.

20 30. The medium of Claim 26, wherein the code is further operable to:

present the communication session to an end user of
the mobile station in a manner that is consistent with a
display which may be offered in the private network.

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31. The medium of Claim 26, wherein the code is further operable to:

identify that the mobile station is equipped to
accommodate one or more of the features associated with
30 the private network and one or more of the features
associated with the cellular data network after the
request is received.